



THE FRANKLIN INSTITUTE

Awards

FOR IMMEDIATE RELEASE

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THE FRANKLIN INSTITUTE ANNOUNCES THE 2014 FRANKLIN INSTITUTE LAUREATES

*2013 Emmy-award winning video captures the significance of the
prestigious annual Awards Program*

Philadelphia, PA November 4, 2013 – A legacy spanning nearly three centuries, the Franklin Institute Awards are among the most well-regarded and prestigious international awards in existence. Recognizing global breakthroughs in science and technology, and extraordinary business leadership, the Awards Program makes science accessible and relevant to the lives of everyone and is instrumental in inspiring the next generation of great scientists and engineers. The Franklin Institute today has named nine individuals who will be recognized and celebrated for their extraordinary contributions during the Franklin Institute Awards Ceremony on Thursday, April 24, 2014.

Honored this fall with a regional Emmy® award, [The Franklin Institute Awards: Declaration of Progress](#) video beautifully illustrates the rich history of the 189-year-old Awards Program. Co-produced by Franklin Institute staff including Dr. Frederic Bertley, Senior Vice President of Science, the award-winning video emphasizes the impact of science and technology past, present and future, and uniquely portrays some of the most celebrated scientists and engineers in history who have come to Philadelphia to receive Franklin Institute Awards, including Marie Curie, Albert Einstein, Jane Goodall, and Bill Gates.

“Each year, some of the most influential pioneers of our time come to the city of Philadelphia to receive this great honor,” said Dr. Frederic Bertley, Senior Vice President of Science at The Franklin Institute. “They serve as incredible role models for our youth, helping to ignite that spark of curiosity which has led to so many critical discoveries.”

Throughout the days leading up to the Awards Ceremony, many past Franklin Institute Awards Laureates return to Philadelphia, joining most of the 2014 Laureates in a variety of public events. The 2014 Laureates will each take part in a seminar or lecture focusing on their specific area of expertise at various universities throughout the city. These free events provide rare opportunities to meet, mingle with and “pick the brains” of some of the most exceptional minds in the world.

The culmination of Awards Week is The Franklin Institute Awards Ceremony and Dinner. The highlight of this elegant event is the presentation of the medals to the Laureates. Programs like The

Franklin Institute Awards, which inspire a passion for learning about science and technology, are made possible by its generous partners. **Bank of America** celebrates 12 years as Lead Supporter of the Awards Ceremony and Dinner. The Awards Week activities, which include *Meet the Scientists*, *Laureates' Laboratory*, and the Laureates' symposia, are generously sponsored by **Mrs. Frank Baldino, Jr.**, who is also an Associate Sponsor of the Awards Ceremony and Dinner. CBS Face the Nation moderator, Bob Schieffer will serve as host of the elegant black-tie affair.

2014 FRANKLIN INSTITUTE AWARD LAUREATES

2014 BOWER AWARD FOR BUSINESS LEADERSHIP

WILLIAM W. GEORGE

Harvard Business School | Boston, Massachusetts

For his visionary leadership of Medtronic Corporation, his promotion and writings on corporate social responsibility and leadership, as well as his extraordinary philanthropic contributions to education and health care through The George Family Foundation.

2014 BOWER AWARD AND PRIZE FOR ACHIEVEMENT IN SCIENCE

EDMUND M. CLARKE, PH.D.

Carnegie Mellon University | Pittsburgh, Pennsylvania

For his leading role in the conception and development of techniques for automatically verifying the correctness of a broad array of computer systems, including those found in transportation, communications, and medicine.

2014 BENJAMIN FRANKLIN MEDAL IN CHEMISTRY

CHRISTOPHER T. WALSH, PH.D.

Harvard Medical School | Boston, Massachusetts

For formative studies at the interface of chemistry, biology and medicine that revolutionized the development of antibiotics for the treatment of disease and provided the foundation for the new field of Chemical Biology.

2014 BENJAMIN FRANKLIN MEDAL IN EARTH AND ENVIRONMENTAL SCIENCE

LISA TAUXE, PH.D.

Scripps Institution of Oceanography | University of California, San Diego

La Jolla, California

For the development of observational techniques and theoretical models providing an improved understanding of the behavior of, and variations in intensity of, the Earth's magnetic field through geologic time.

2014 BENJAMIN FRANKLIN MEDAL IN ELECTRICAL ENGINEERING

SHUNICHI IWASAKI, PH.D.

Tohoku Institute of Technology | Sendai, Japan

MARK H. KRYDER, PH.D.

Carnegie Mellon University | Pittsburgh, Pennsylvania

For the development and realization of the system of Perpendicular Magnetic Recording, which has enabled a dramatic increase in the storage capacity of computer-readable media.

2014 BENJAMIN FRANKLIN MEDAL IN LIFE SCIENCE

JOACHIM FRANK, PH.D.

Columbia University | New York, New York

For the development of Cryo-Electron Microscopy, for using this technology to investigate the structure of large organic molecules at high resolution, and for discoveries regarding the mechanism of protein synthesis in cells.

2014 BENJAMIN FRANKLIN MEDAL IN MECHANICAL ENGINEERING

ALI HASAN NAYFEH, PH.D.

Virginia Polytechnic Institute and State University | Blacksburg, Virginia

For the development of novel methods to model complex engineering systems in structural dynamics, acoustics, fluid mechanics and electromechanical systems.

2014 BENJAMIN FRANKLIN MEDAL IN PHYSICS

DANIEL KLEPPNER, PH.D.

Massachusetts Institute of Technology | Cambridge, Massachusetts

For many pioneering contributions to discoveries of novel quantum phenomena involving the interaction of atoms with electromagnetic fields and the behavior of atoms at ultra-low temperatures.

For more information including photos, visit www.fi.edu/press/awards.

About The Franklin Institute

Founded in honor of America's first scientist, Benjamin Franklin, The Franklin Institute is one of America's oldest and premier centers of science education and development in the country. Today, the Institute continues its dedication to public education and creating a passion for science by offering new and exciting access to science and technology in ways that would dazzle and delight its namesake. Recognizing outstanding achievements in science throughout the world is one important way that the Institute honors its commitment to Benjamin Franklin's legacy. For more information, please go to www.fi.edu/awards.